

TALON[®] robots

TALON[®] IV Engineer

New Combat Engineer Route Clearance Robot

A new variation of the durable and versatile TALON robot is now available for route clearing, mine detection, vehicle inspections, and route surveillance. TALON IV Engineer comes with a new powerful arm that offers a rotating shoulder, extendable reach, and strong in-line gripper. The TALON IV Engineer also comes with a small, lightweight laptop control unit with gamepad user interface device. The TALON IV Engineer consists of:

- Rugged Generation IV TALON robot
- Heavy lift arm with shoulder, selectable extension, and powerful in-line gripper
- Arm strong enough to right the Generation IV TALON when inverted
- Lightweight laptop controller with gamepad control device
- New scraper for uncovering and clearing explosive threats



TALON IV Engineer inspecting vehicle



TALON IV Engineer carrying 39 lb simulated projectile



TALON IV Engineer sweeping for mines with AN/PSS-14

| | Current TALON | New TALON Engineer | Increase | Advantage |
|--|---------------|--------------------------------|-------------|---|
| Shoulder Rotation | None | 200 degrees in both directions | 360 degrees | Off-axis lifting and surveillance |
| Maximum Arm Lift Strength | 20 lbs | 65 lbs | 225% | 105 mm and larger projectiles and heavy objects |
| Gripping Strength | 40 lbs | 100 lbs | 150% | 105 mm and larger projectiles, tough doors knobs and valves |
| Gripper Grasp | 4 in. | 6.2 in. | 55% | 105 mm and larger projectiles |
| Maximum Arm Reach (above and beyond the robot) | 5 ft | 7 ft | 40% | Increased surveillance and grasping range |

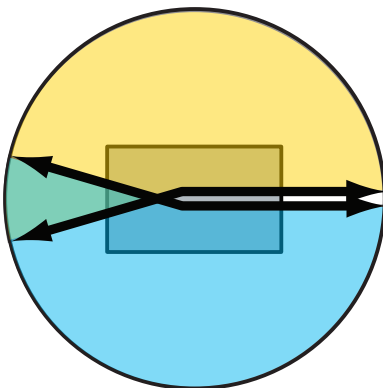
New Controllers with Gamepad Devices

Choice of controllers for your mission, space, and weight needs:

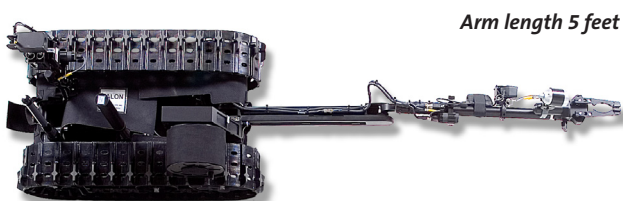
- Fast processing capabilities
- Tough ruggedized housings and interface panels
- Impressive platform situational awareness features
- Gamepad devices for ease of operation
- Quad screens for simultaneous camera views
- USB picture capture capability
- Touch screens for quick item selections
- Selectable radio options to meet mission needs
- Quickly accommodate external antennas
- Daylight readable displays

Laptop controllers join the TALON family:

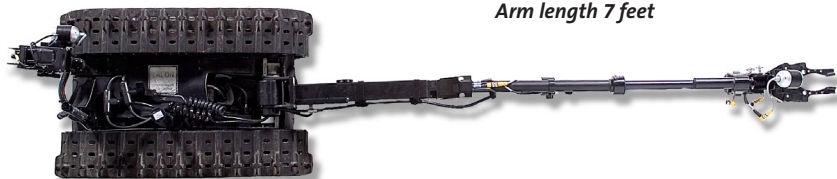
- Lightweight and easily transported
- Small size for internal vehicle use, handcarrying, or packing into a rucksack



New shouldered arm swings 200° in both directions, permitting 360° coverage



Arm length 5 feet



Arm length 7 feet



TALON IV Engineer lifting 38 lb cinder block off simulated IED



TALON IV Engineer inspecting back of guard rail during route clearance mission



Left: WiFi laptop controller, center: coFdm laptop controller, right: common controller

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